

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

INDIANAPOLIS

ST. JOSEPH
DOUGLAS RD.

OFFICE MEMORANDUM

DATE: February 17, 1989

TO: Wally Turner
Site Management Section

THRU: Larry Studebaker *7-22-2*
Reggie Baker *ROB*

FROM: Steve Myers *SRM 2/17/89*
Technical Support Section

SUBJECT: Proposed Mishawaka Well Field
St. Joseph County

EPA Region 5 Records Ctr.



325791

Data regarding the proposed well field were reviewed to determine if pumping would impact or be impacted by Douglas Road Landfill, a CERCLA site. Well logs indicate that the water levels at Douglas Road Landfill are approximately 20 feet below the water levels of the proposed well field. Groundwater flows southwest in a glacial outwash aquifer, therefore, any contamination in the aquifer from Douglas Road Landfill will likely flow away from the proposed well field. At projected maximum drawdown in the field, the radius of influence would not induce flow from the Douglas Road Landfill area to the field.

Computer software analyzing time-drawdown curves was used to check the aquifer test results supplied by the contractor for transmissivity and storativity. Since the information supplied by the well field contractor is deemed reliable and Douglas Road Landfill is significantly downgradient, no potential exists for contamination of the well field from the landfill. However, significant lowering of the water table may occur in residential wells in the immediate vicinity of the proposed well field.

SM/mg

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